



**Homeland
Security**
Science and Technology

INTERNATIONAL BIOMETRIC PERFORMANCE CONFERENCE

NIST

Performance, Evaluation and Specification of Biometric Technologies

NIST Gaithersburg, MD

Conference March 2-4, 2010

Satellite Workshops March 1 and March 5



SATELLITE WORKSHOP I

Monday March 1, 13:30 - 16:30

The Future of NFIQ

Employee Lounge

Attendance is free. All IBPC attendees are registered automatically. Non-IBPC attendees please contact:

elham.tabassi@nist.gov

SATELLITE WORKSHOP II

Friday March 5, 09:00 - 11:00

Template Protection Testing

Employee Lounge

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SATELLITE WORKSHOP III

Friday March 5, 11:30 - 13:30

Fingerprint Feature Markup, Semantic Conformance Testing

Employee Lounge

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Co-chairs: Patrick Grother (NIST), Elham Tabassi (NIST), Tony Mansfield (NPL), Christoph Busch (Fraunhofer IGD)

NIST

NPL
National Physical Laboratory

Fraunhofer
IGD

IBPC 2010 NIST GAITHERSBURG, MD

IBPC DAY 1 – TUESDAY MARCH 2, 2010

7:30	Breakfast
10 8:30	NIST - Welcome and Introductions
10 8:40	Arun Vemury (DHS - S&T): Biometric Performance: The DHS Perspective
20 8:50	Keynote: Tony Mansfield (NPL) + Patrick Grother (NIST): The wide world of biometric testing.
25 9:10	Scott Swann (FBI): Large-scale biometric testing at the FBI
25 9:35	Marek Rejman-Greene (HOSDB) - Towards a framework for the testing of biometric systems: in procurement, design and operational use
30 10:00	Break
40 10:30	Peter Waggett (IBM) et al.: Performance prediction testing for very large scale fingerprint based national identity schemes
25 11:10	Marcus Nuppeney (BSI): EasyPASS - Evaluation of face recognition performance in an operational automated border control system
25 11:35	Fares Rahmun (BVA) + Oliver Bausinger (BSI): Best practice fingerprint enrolment standards for the European Visa Information System
25 12:00	Guenther Schumacher (JRC): Recognition performance in the case of juvenile fingerprints
75 12:25	Lunch
30 13:40	Poster Session: Chair: Christoph Busch. See Program Below
25 14:10	Geoff Whitaker (NPIA): Evaluating the operational accuracy of police mobile Biometric ID
25 14:35	Ambika Suman (NPIA): Evaluating operator led biometrics systems
30 15:00	Break
25 15:30	Jim Wayman (SJSU): A modern history of biometric testing in the US
20 15:55	Tony Mansfield (NPL): Identification terminology and metrics for watchlist and other open-set apps.
20 16:15	Eric Kukula (Purdue U.): Beyond current testing standards: A framework for evaluating human-sensor interaction
20 16:35	Austin Hicklin + Brad Ulery (Noblis): Beyond similarity scores
25 16:55	Michael Schuckers (St. Lawrence U.): Statistical methods for biometric authentication performance
25 17:20	Ted Dunstone (Biometix): Visualization of operational performance in biometric systems: The zoo and beyond
120 17:45	NIST Drinks Reception (Beer + Wine)
19:45	End

IBPC DAY 2 - WEDNESDAY MARCH 3, 2010

7:30	Breakfast
10 8:30	NIST - Recap Day 1 : Intro to Day 2
40 8:40	Keynote: Jim Wayman (SJSU), Antonio Possolo (NIST), Tony Mansfield (NPL): Fundamental issues in biometric performance testing
25 9:20	DHS: Thomas Amerson (DHS CBP): Biometric Testing in the Mona Pass
15 9:45	Rick Lazarick (CSC): Establishment of testing laboratory accreditation under NVLAP - The DHS perspective
25 10:00	Nigel Gordon (CESG): Developing a methodology for biometric security testing
30 10:50	Break
25 10:25	Olaf Henniger, Dirk Scheuermann, Thomas Kniess (Fraunhofer): On security evaluation of fingerprint recognition systems
25 11:20	Nils Tekampe (TÜV IT) + Ralph Breithaupt (BSI): Spoof detection and the Common Criteria - German experiences
25 11:45	Koen Simoens (K.U.Leuven) - Security analysis of biometric template Protection
25 12:10	Xuebing Zhou (Fraunhofer): Security evaluation of biometric privacy enhancing techniques
25 12:35	Stephanie Schuckers (Clarkson U): Evaluation of liveness or anti-spoofing in biometric systems
75 13:00	Lunch
25 14:15	Davrondzhon Gafurov (GUC): Independent performance evaluation of biometric systems
25 14:40	Jonathon Phillips (NIST): Using challenge problems to advance the technology and science of biometrics
25 15:05	Alvin Martin (NIST): Using an ongoing series of performance evaluations to drive speaker recognition technology
25 15:30	Michael Thieme (IBG): Testing for emerging modalities
30 15:55	Break
25 16:25	Terry Boulton (U. Colo.): Evaluation using synthetic + semi-synthetic biometric Data
25 16:50	Rick Lazarick (CSC): Biometric product qualification program for US airport access control
20 17:15	Raul Sanchez-Reillo (U. Carlos III): Testing laboratory interactions for evaluating biometrics
20 17:35	Panel Discussion: Adam Czajka (NASK): Call for cooperation: network of biometric testing laboratories
17:55	End

IBPC DAY 3 - THURSDAY MARCH 4, 2010

7:30	Breakfast
10 8:30	NIST - Recap Day 2 : Intro to Day 3
10 8:40	Will Graves (DHS - US-VISIT): The Future of IDENT
25 8:50	Terry Hartmann (Unisys): Integrator perspectives – What I wish I knew the metrics for.
25 9:15	Colin Soutar (CSC): Biometric technologies and identity assurance
25 9:40	Tom Hopper (Cogent): A Testing foundation for sharing latent identification services
25 10:05	Break
25 10:30	Brian Martin (L1): Biometric identification: metrics and models
25 10:55	Jean-Christophe Fondeur (Sagem): Biometric testing and performance extrapolation
25 11:20	Greg Cannon (Crossmatch): Biometric performance, a systems perspective
25 11:45	Raffaele Cappelli + David Maltoni (U. Bologna): FVC-onGoing: On-line evaluation of fingerprint recognition algorithms
30 12:10	NIST Activities Update: Chair: Michael Garriss. See Program Below
60 12:40	Lunch
25 13:40	Valorie Valencia (Authenti-corp): Biometric covariate analysis using partial area under curve
25 14:05	Don D'Amato(Noblis): The specification and measurement of face image quality
25 14:30	Rene Salamon (BSI) + Peter Ebinger (Fraunhofer): From ground truth to semantic conformance testing
25 14:55	Christoph Busch (Fraunhofer): The benefit of ground truth data to semantic conformance testing of fingerprint minutia encoding
25 15:20	Toshi Nakamura (Oki): New methodologies for BioAPI conformance testing
15 15:45	Break
60 16:00	Panel Discussion: Adam Czajka (NASK): Call for cooperation: biometric template ageing
30 17:00	End



- 2 13:40 **IBPC 2010 POSTER SESSION**
Chair: Christoph Busch
- 3 13:42 Sergey Tulyakov (SUNY Buffalo): Predicting Performance in Large-Scale Identification Systems by Score Resampling
- 3 13:45 Dmitry O. Gorodnichy + Richard Hoshino (CBSA): Calibrated Confidence Scoring for Biometric Identification
- 3 13:48 Su Cheng (NIST): Comparison of Confidence Intervals for Large Operational Biometric Data by parametric and non-parametric Methods
- 3 13:51 Ricardo Rodrigues (SUNY): Assessment of Biometric Robustness Against Spoof Attacks
- 3 13:54 Takahiro Yoshida - Tokyo U. of Science - Accuracy And Problems In Using ISO/IEC 19794-2 Finger Minutiae Formats For Automated Verification
- 3 13:57 Basia Nasiorowska (Face2Face): Facial recognition identification testing from still and live twin children face images
- 3 14:00 Nick Bartlow - BRTRC - Holistic evaluation of multi-biometric systems
- 3 14:03 Ted Dunstone (Biometrics Institute): biometric vulnerability assessments
- 3 14:06 Belen Fernandez-Saavedra (UC III ES): Environmental testing methodology in biometrics
- 3 14:09 Vladimir Dvornychenko (NIST): Approaches for Matcher Performance Modeling

- 3 12:10 **NIST ACTIVITIES SESSION**
Chair: Michael Garris
- 3 12:13 Iris Exchange - IREX II - Iris Quality Calibration and Evaluation - Elham Tabassi
- 2 12:16 NFIQ - NIST Fingerprint Image Quality - Elham Tabassi
- 3 12:18 MBGC / MBE - Multiple Biometric Evaluation - Jonathon Phillips
- 3 12:21 PFT - Proprietary Fingerprint Template testing - Craig Watson
- 2 12:24 SlagSeg - Slap Segmentation test status - Craig Watson
- 3 12:26 ELFT - Evaluation of latent fingerprint technologies - Michael Indovina
- 3 12:29 The ANSI/NIST Standard - Brad Wing
- 2 12:32 Minutia Exchange MINEX I - Core interoperability - Patrick Grother
- 3 12:34 Minutia Exchange MINEX II - On-Card comparison - Patrick Grother
- 3 12:37 Personal Identity Verification - Patrick Grother

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